	SIFICATION OF SUBJECT MATTER .Cl ⁷ H01H9/34, H01H50/00, H01H	50/02			
	to International Patent Classification (IPC) or to both n	national classification and IPC			
	OS SEARCHED .				
	documentation searched (classification system followed). C1 ⁷ H01H9/34, H01H9/44, H01H5				
Dogumenta	tion consoled other than minimum documentation to the	as autout that auch documents are included	* 11 - 6*-13ah-ad		
	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1940–1996 Toroku Jitsuyo Shinan Koho 1994–2003				
Koka	Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003				
Electronic d	data base consulted during the international search (nan	ne of data base and, where practicable, sea	rch terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where a		Relevant to claim No.		
A	JP 11-242924 A (Mitsubishi F 07 September, 1999 (07.09.99 Full text; Figs. 1 to 13 & DE 19828417 A		1-3		
A	Microfilm of the specification to the request of Japanese Utino. 169804/1987(Laid-open No (Fuji Electric Co., Ltd.), 18 May, 1989 (18.05.89), Full text; Figs. 1 to 20 (Family: none)	ility Model Application . 73722/1989)	1-3		
	er documents are listed in the continuation of Box C.	See patent family annex.			
* Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 20 October, 2003 (20.10.03)		priority date and not in conflict with the understand the principle or theory understand the principle of the considered novel or cannot be considered to involve an inventive step combined with one or more other such combination being obvious to a person document member of the same patent for the sam	priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art		
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PCT/JP03/12010

		03712010
C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 165503/1987(Laid-open No. 70226/1989) (Fuji Electric Co., Ltd.), 10 May, 1989 (10.05.89), Full text; Figs. 1 to 20 (Family: none)	1-3
А	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 165502/1987(Laid-open No. 70225/1989) (Fuji Electric Co., Ltd.), 10 May, 1989 (10.05.89), Full text; Figs. 1 to 20 (Family: none)	1-3
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 165501/1987(Laid-open No. 70224/1989) (Fuji Electric Co., Ltd.), 10 May, 1989 (10.05.89), Full text; Figs. 1 to 19 (Family: none)	1-3